

In the Claims:

Please cancel Claims 1-24 without prejudice.

Please add the following new Claims 25-113:

25. A method of communication of patient data, said method including the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient data storage and analysis apparatus wherein retrieved data travels via at least a portion of the same said interconnectable network of computers.
26. The method of claim 25, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers are adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.
27. The method of claim 26, wherein said interconnectable network of computers includes the Internet.
28. The method of claim 25, wherein said patient data server includes an SQL database.
29. The method of claim 25, wherein said patient data is at least partially encrypted for transmission.
30. The method of claim 25, wherein said patient data is at least partially compressed for transmission.
31. The method of claim 25, wherein said patient data is acquired in real time.
32. The method of claim 25, wherein said patient data is patient physiological data.
33. The method of claim 25, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.
34. The method of claim 25, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.

35. The method of claim 25, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
36. The method of claim 25, wherein a unique identifier is added to said data.
37. The method of claim 25, wherein said patient data storage and analysis apparatus includes at least one personal computer.
38. The method of claim 34, wherein said supplemental data comprises at least one of patient data or patient data apparatus identification data.
39. A method of communication of patient data, said method including the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient data storage and analysis apparatus wherein retrieved data travels via at least a portion of the same said interconnectable network of computers; ~~and wherein transmission and/or reception of said data is achieved by use of an ActiveX control system.~~
40. The method of claim 39, wherein transmission and/or reception of said data is completed partially by use of the ActiveX control system.
41. The method of claim 39, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.
42. The method of claim 41, wherein said interconnectable network of computers includes the Internet.
43. The method of claim 39, wherein said patient data server includes an SQL database.
44. The method of claim 39, wherein said patient data is at least partially encrypted for transmission.

45. The method of claim 39, wherein said patient data is at least partially compressed for transmission.
46. The method of claim 39, wherein said patient data is acquired in real time.
47. The method of claim 39, wherein said patient data is patient physiological data.
48. The method of claim 39, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.
49. The method of claim 39, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.
50. The method of claim 39, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
51. The method of claim 39, wherein a unique identifier is added to said data.
52. The method of claim 39, wherein said patient data storage and analysis apparatus includes at least one personal computer.
53. The method of claim 49, wherein said supplemental data comprises at least one of patient data or patient data apparatus identification data.
54. A method of communication of patient data, said method including comprising the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient data storage and analysis apparatus wherein retrieved data travels via at least a portion of the same said interconnectable network of computers; and wherein transmission and/or reception of said data is achieved by use of an Xmodem protocol.
55. The method of claim 54, wherein transmission and/or reception of said data is completed partially by use of said Xmodem Protocol.
56. The method of claim 54, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until

they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.

57. The method of claim 56, wherein said interconnectable network of computers includes the Internet.
58. The method of claim 54, wherein said patient data server includes an SQL database.
59. The method of claim 54, wherein said patient data is at least partially encrypted for transmission.
60. The method of claim 54, wherein said patient data is at least partially compressed for transmission.
61. The method of claim 54, wherein said patient data is acquired in real time.
62. The method of claim 54, wherein said patient data is patient physiological data.
63. The method of claim 54, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.
64. The method of claim 54, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.
65. The method of claim 54, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
66. The method of claim 54, wherein a unique identifier is added to said data.
67. The method of claim 54, wherein said patient data storage and analysis apparatus includes at least one personal computer.
68. The method of claim 64, wherein said supplemental data comprises at least one of patient data or patient data apparatus identification data.
69. A method of communication of patient data, said method including the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient data storage and analysis apparatus wherein retrieved

data travels via at least a portion of the same said interconnectable network of computers; and wherein said data server including a database of a series of binary large objects.

70. The method of claim 69, wherein said binary large objects are extracted in real time.
71. The method of claim 70, wherein said extraction utilizes an ISAPI application.
72. The method of claim 69, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.
73. The method of claim 72, wherein the interconnectable network of computers includes the Internet.
74. The method of claim 69, wherein said patient data server includes an SQL database.
75. The method of claim 69, wherein said patient data is at least partially encrypted for transmission.
76. The method of claim 69, wherein said patient data is at least partially compressed for transmission.
77. The method of claim 69, wherein said patient data is acquired in real time.
78. The method of claim 69, wherein said patient data is patient physiological data.
79. The method of claim 69, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.
80. The method of claim 69, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.
81. The method of claim 69, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
82. The method of claim 69, wherein a unique identifier is added to said data.
83. The method of claim 69, wherein said patient data storage and analysis apparatus includes at least one personal computer.

84. The method of claim 80, said supplemental data comprises at least one of patient data or patient data apparatus identification data.
85. A method of communication of patient data, said method including the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient storage and analysis apparatus wherein retrieved data travels via at least of portion of the same said interconnectable network of computers; and wherein said data includes wave forms
86. The method of claim 85, wherein said wave forms are stored as Java™ applets.
87. The method of claim 85, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.
88. The method of claim 85, wherein the interconnectable network of computers includes the Internet.
89. The method of claim 85, wherein said patient data server includes an SQL database.
90. The method of claim 85, wherein said patient data is at least partially encrypted for transmission.
91. The method of claim 85, wherein said patient data is at least partially compressed for transmission.
92. The method of claim 85, wherein said patient data is acquired in real time.
93. The method of claim 85, wherein said patient data is patient physiological data.
94. The method of claim 85, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.

95. The method of claim 85, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.
96. The method of claim 85, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
97. The method of claim 85, wherein a unique identifier is added to said data.
98. The method of claim 85, wherein said patient data storage and analysis apparatus includes at least one personal computer.
99. The method of claim 95, wherein said supplemental data comprises at least one of patient data or patient data apparatus identification data.
100. A system of communication of patient data, said method including the steps of: acquiring said data from a patient at a patient location by means of a patient data acquisition apparatus; transmitting said data by means of a transmission apparatus to a patient data server at an analysis location via a interconnectable network of computers; storing said data within said data server; and retrieving said data from data server by use of queries generated by a patient data storage and analysis apparatus wherein retrieved data travels via at least a portion of the same said interconnectable network of computers.
101. The system of claim 100, wherein said interconnectable network of computers is adapted for interconnection using standardized protocols and wherein individual computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information.
102. The system of claim 101, wherein said interconnectable network of computers includes the Internet.
103. The system of claim 100, wherein said patient data server includes an SQL database.
104. The system of claim 100, wherein said patient data is at least partially encrypted for transmission.
105. The system of claim 100, wherein said patient data is at least partially compressed for transmission.

106. The system of claim 100, wherein said patient data is acquired in real time.
107. The system of claim 100, wherein said patient data is patient physiological data.
108. The system of claim 100, wherein said patient data comprises a plurality of separate waveforms acquired consecutively over a period of days or weeks.
109. The system of claim 100, wherein said transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient data.
110. The system of claim 100, wherein a unique identifier is given to each said data acquisition apparatus and to said data.
111. The system of claim 100, wherein a unique identifier is added to said data.
112. The system of claim 100, wherein said patient data storage and analysis apparatus includes at least one personal computer.
113. The system of claim 109, wherein said supplemental data comprises at least one of patient data or patient data apparatus identification data.
114. A method of communication of patient physiological data acquired from a patient, said method including the steps of arranging a predetermined communications protocol whereby patient data is communicable from a patient location to an analysis location and implemented by a system which comprises at least the following components:
  - a) Patient data acquisition apparatus which acquires said patient physiological data from said patient;
  - b) Patient data transmission apparatus which transmits said data;
  - c) An interconnectable network of computers adapted for interconnection using standardized protocols and wherein the individual computers making up the network at any given time include computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information;



d) A patient data server for receiving said data, said server including a physiological database including physiological data and a control means for querying said database; and

e) Patient data storage and analysis apparatus for storing and presenting said data for analysis;  
said method comprising the steps of:

I) acquiring said patient physiological data at said patient location by means of said patient data acquisition apparatus;

II) transmitting said patient physiological data as said packets of information by means of said patient data transmission apparatus via said interconnectable network of computers to said patient data server and storing said data at said server;

III) processing a query for physiological data; and

IV) passing said data from same said interconnectable network of computers.

115. The method of claim 114, wherein said patient physiological data comprises a plurality of separate wave forms acquired consecutively over a period of days or weeks.

116. The method of claim 114, wherein said patient data storage and analysis apparatus includes at least one personal computer.

117. The method of claim 114, wherein said patient data transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient physiological data.

118. The method of claim 114, wherein a unique identifier is given to each said patient data acquisition apparatus and to said data.

119. The method of claim 114, wherein a unique identifier is given to each said patient data storage and analysis apparatus and added to said data.

120. The method of claim 119, wherein said unique identifier is embedded in a software portion comprising part of said patient data storage and analysis apparatus.

121. The method of claim 114, wherein said patient data storage and analysis apparatus includes a personal computer arranged to execute a patient data storage and analysis program.
122. The method of claim 117, wherein said patient physiological data is encoded for transmission in a first format whilst supplementary data is encoded for transmission in a second format.
123. The method of claim 114, wherein said supplementary data comprises at least one of patient data or patient data acquisition identification data.
124. A system of communication of patient physiological data acquired from a patient, said method including the steps of arranging a predetermined communications protocol whereby patient data is communicable from a patient location to an analysis location and implemented by a system which comprises at least the following components:
- a) Patient data acquisition apparatus which acquires said patient physiological data from said patient;
  - b) Patient data transmission apparatus which transmits said data;
  - c) An interconnectable network of computers adapted for interconnection using standardized protocols and wherein the individual computers making up the network at any given time include computers adapted to store and forward packets of digital information and whereby the packets of information are thereby able to be passed from computer to computer until they reach a destination computer whose address is included as part of the packet and wherein said data is transmitted as said packets of information;
  - d) A patient data server for receiving said data, said server including a physiological database including physiological data and a control means for querying said database; and
  - e) Patient data storage and analysis apparatus for storing and presenting said data for analysis;
- said method comprising the steps of:

V) acquiring said patient physiological data at said patient location by means of said patient data acquisition apparatus;

VI) transmitting said patient physiological data as said packets of information by means of said patient data transmission apparatus via said interconnectable network of computers to said patient data server and storing said data at said server;

VII) processing a query for physiological data; and

VIII) passing said data from same said interconnectable network of computers.

125. The method of claim 124, wherein said patient physiological data comprises a plurality of separate wave forms acquired consecutively over a period of days or weeks.
126. The method of claim 124, wherein said storage and analysis apparatus includes at least one personal computer.
127. The method of claim 124, wherein said patient data transmission apparatus includes supplementary data insertion means for inserting supplemental data into said patient physiological data.
128. The method of claim 124, wherein a unique identifier is given to each said patient data acquisition apparatus and to said data.
129. The method of claim 124, wherein a unique identifier is given to each said patient data storage and analysis apparatus and added to said data.
130. The method of claim 124, wherein said unique identifier is embedded in a software portion comprising part of said patient data storage and analysis apparatus.
131. The method of claim 124, wherein said patient data storage and analysis apparatus includes a personal computer arranged to execute a patient data storage and analysis program.
132. The method of claim 127, wherein said patient physiological data is encoded for transmission in a first format whilst supplementary data is encoded for transmission in a second format.
133. The method of claim 124, wherein said supplementary data comprises at least one of patient data or patient data acquisition identification data.